

**FIG. 1**

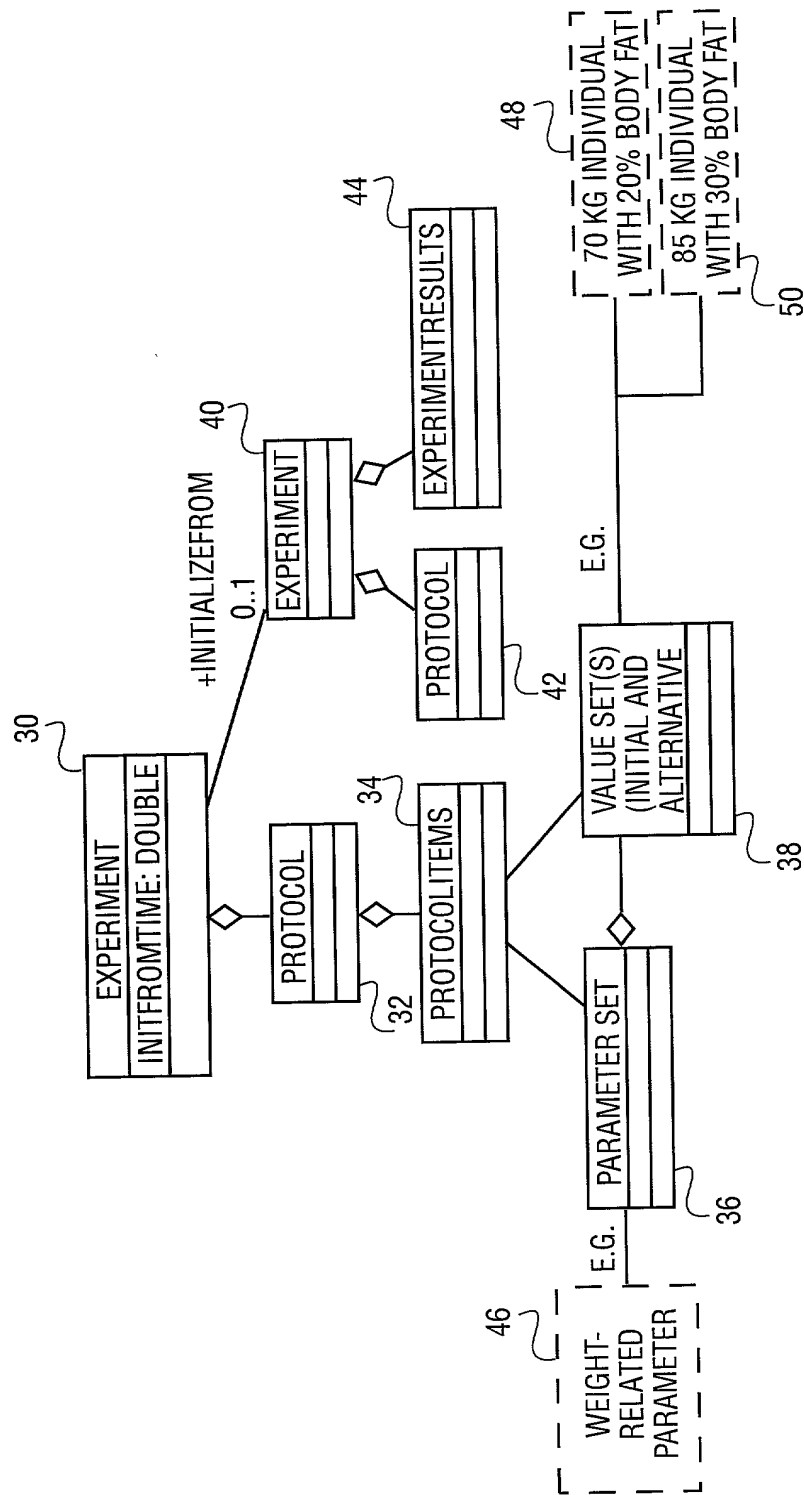


FIG. 2

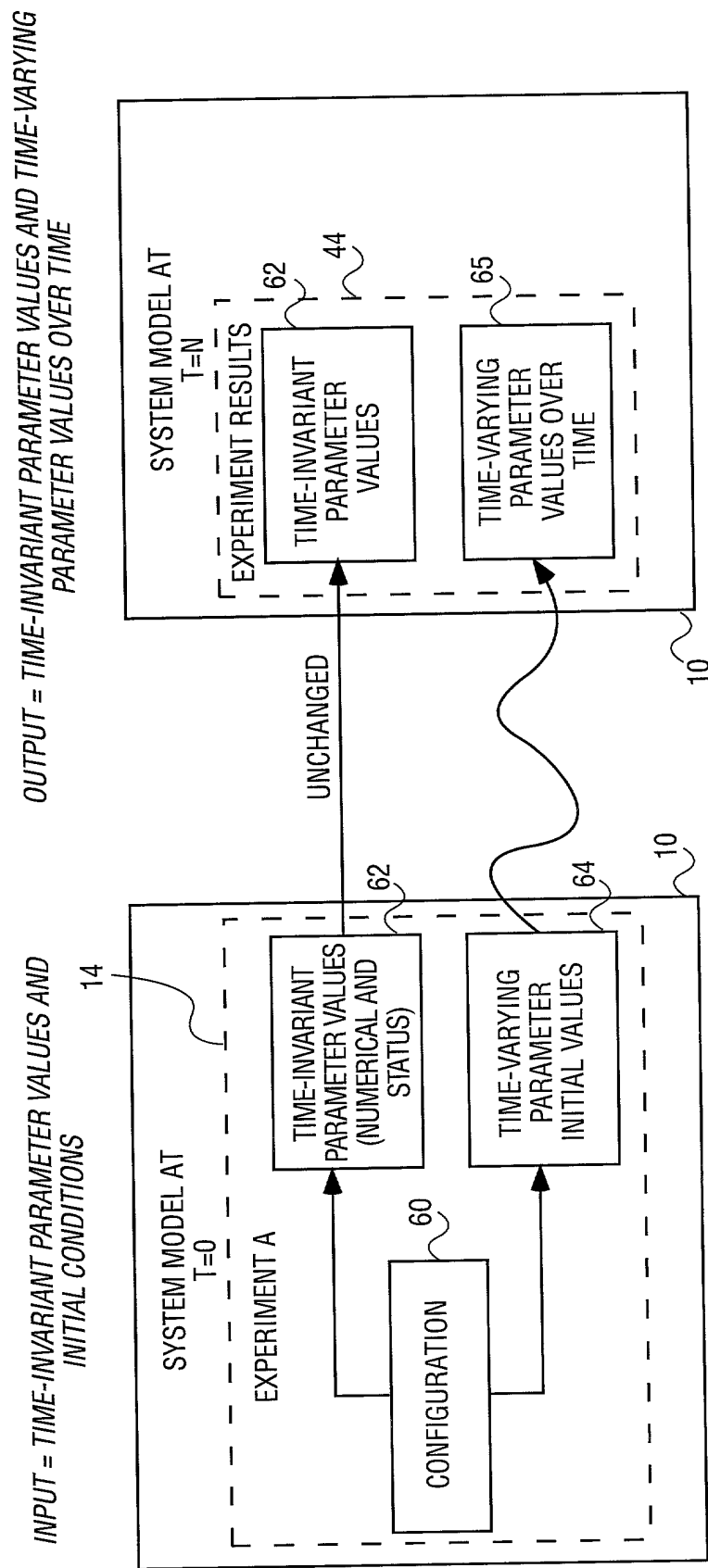


FIG. 3

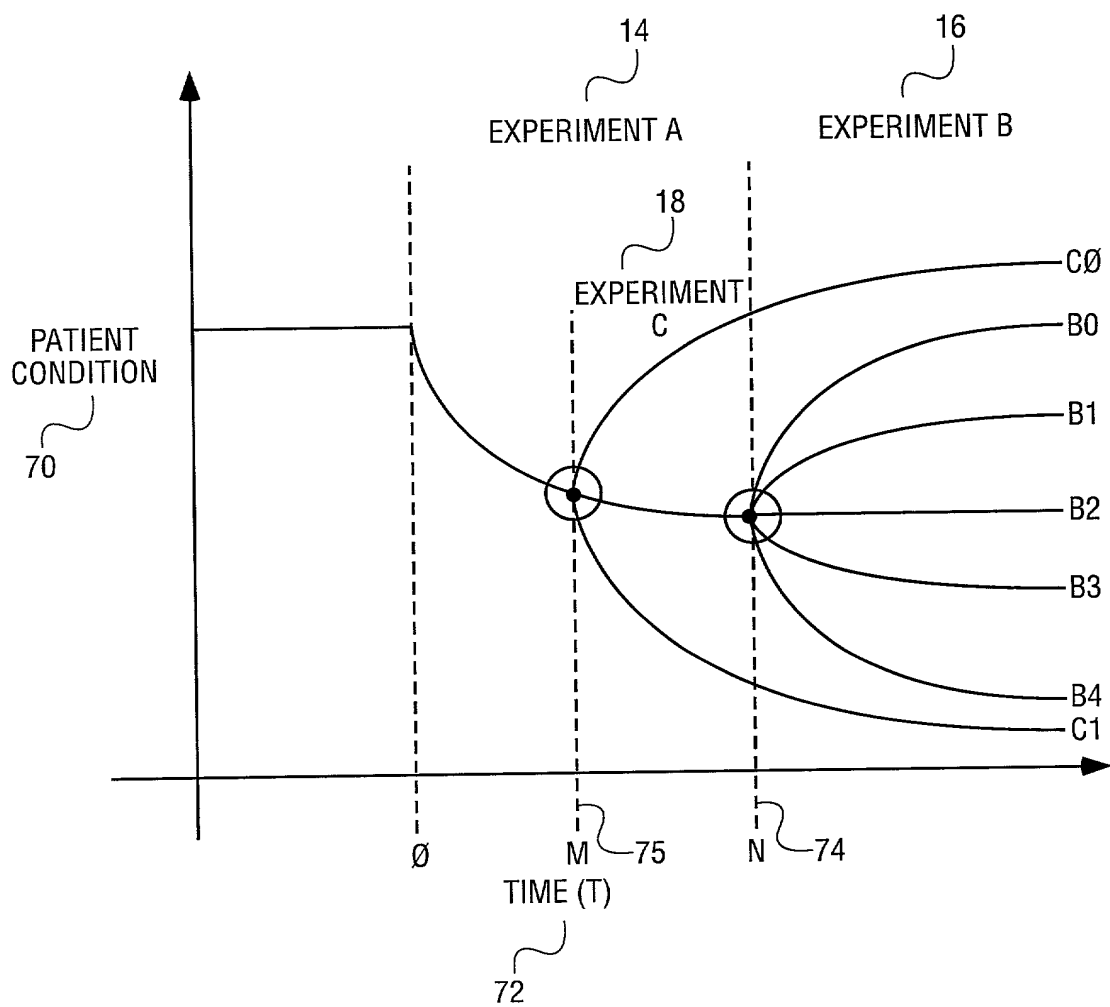
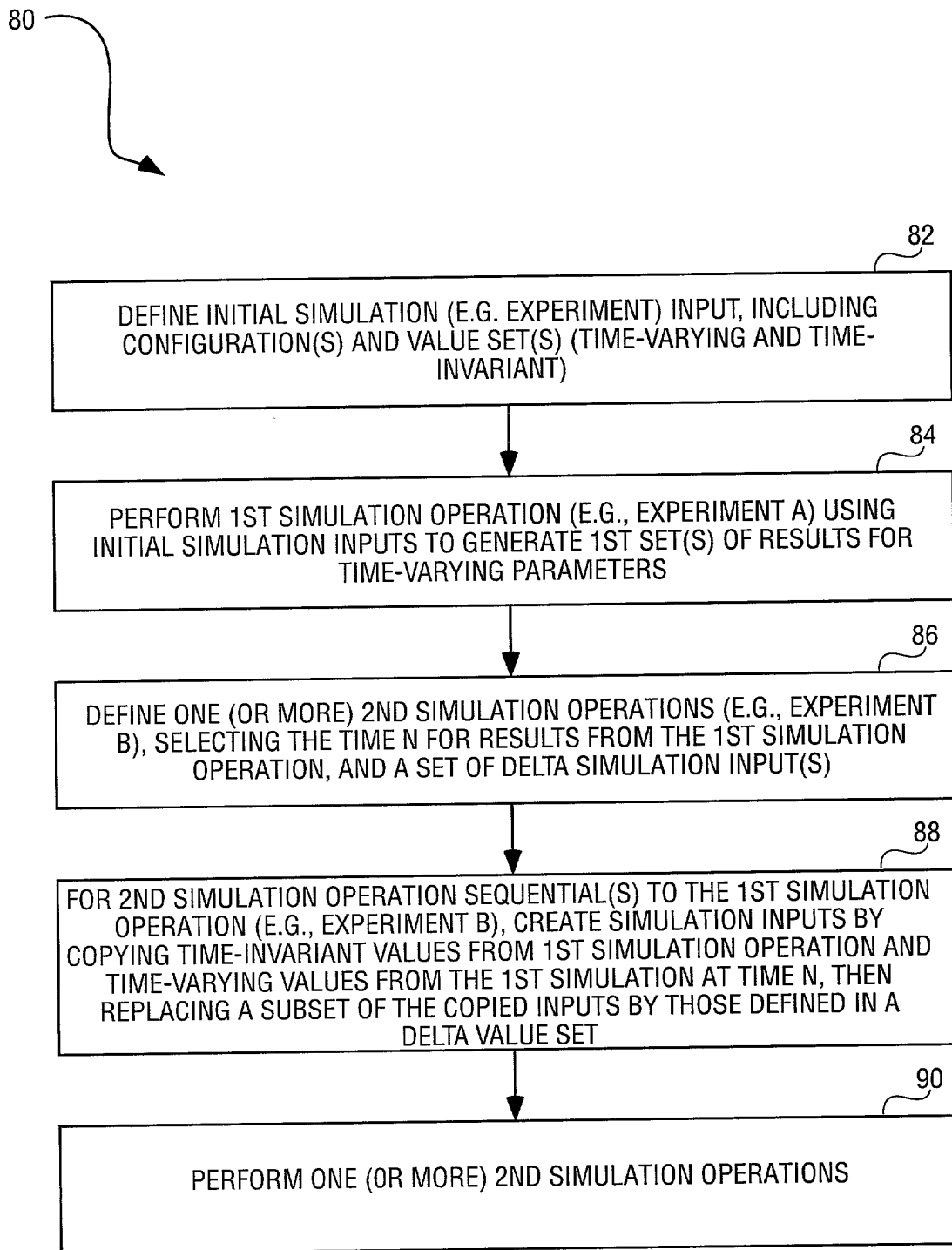


FIG. 4



**FIG. 5**

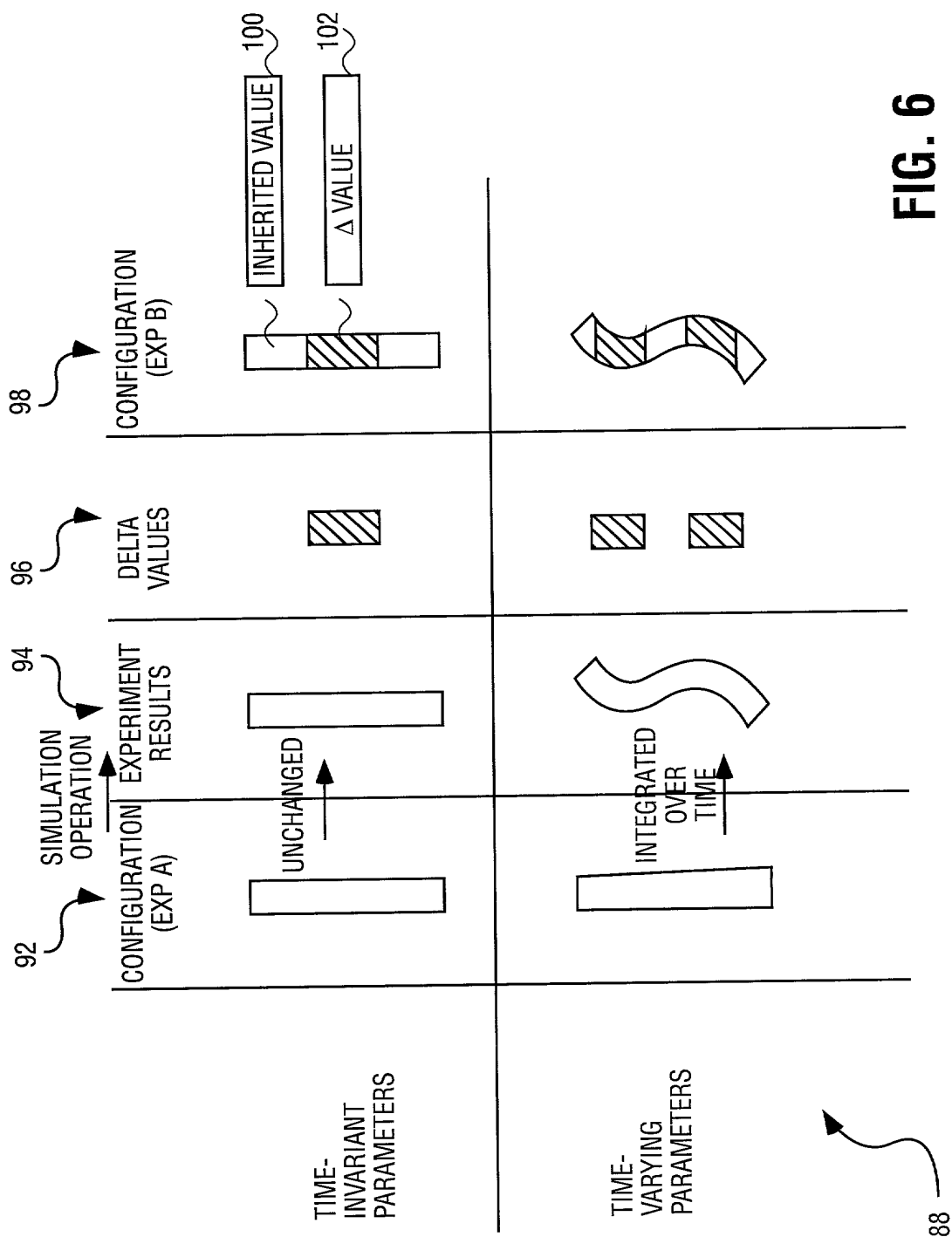


FIG. 6

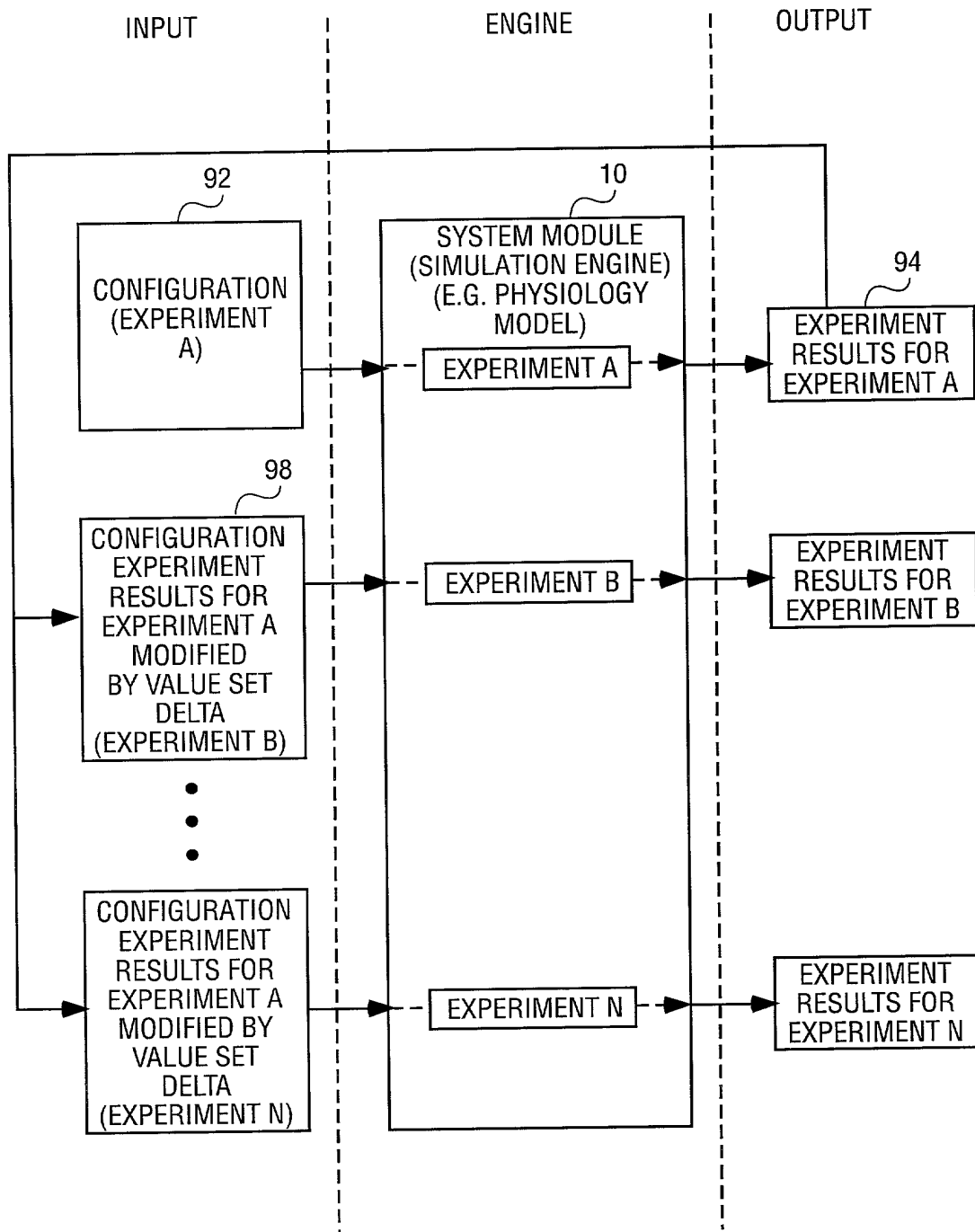
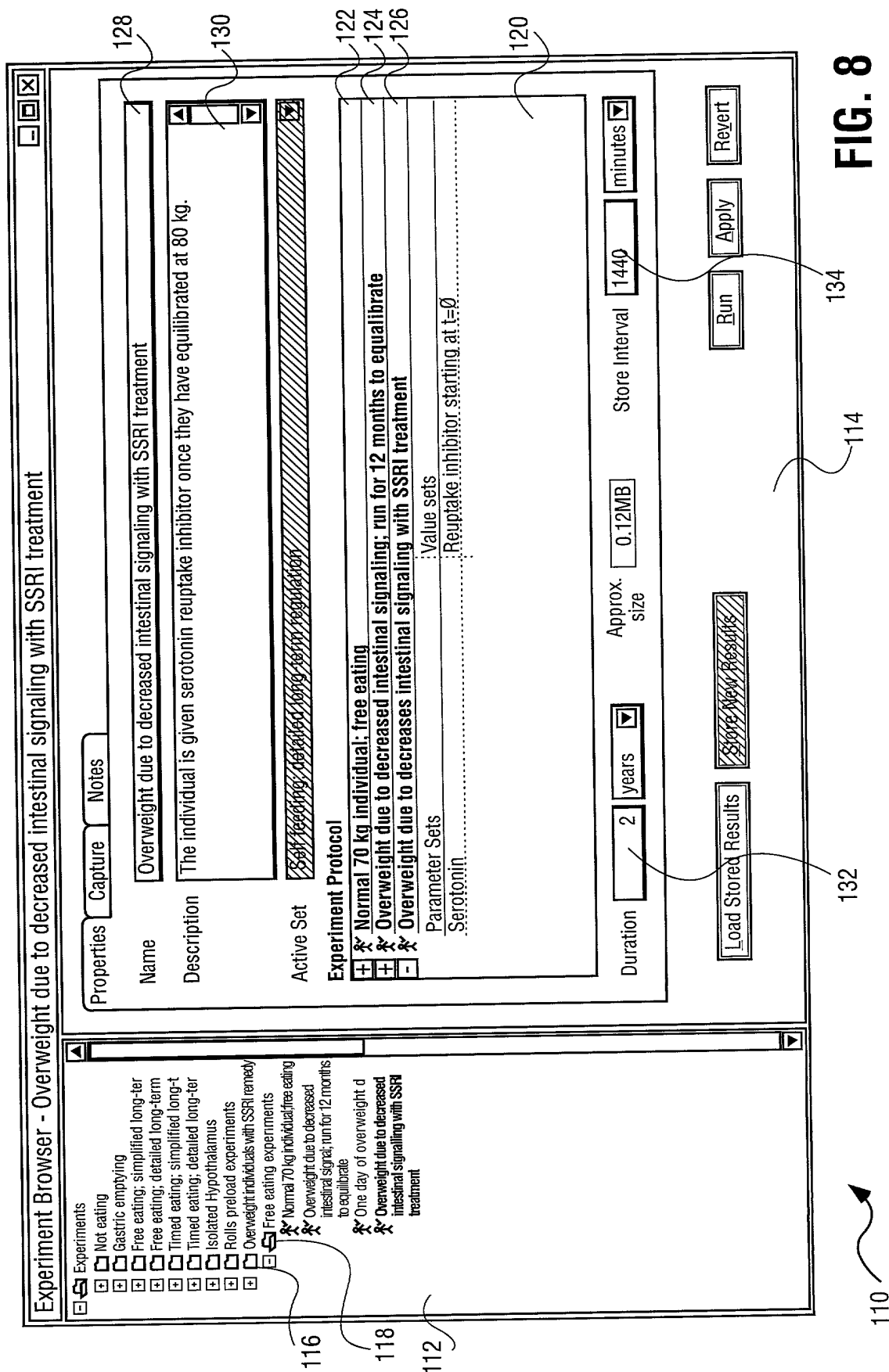


FIG. 7





Experiment Browser - Overweight due to decreased intestinal signaling with SSRI treatment

Experiments

☐ Not eating  
☐ Gastric emptying  
☐ Free eating; simplified long-term  
☐ Free eating; detailed long-term  
☐ Timed eating; simplified long-term  
☐ Timed eating; detailed long-term  
☐ Isolated Hypothalamus  
☐ Rolls pre-load experiments  
☐ Overweight individuals with SSRI remedy  
☐ Free eating experiments  
☒ Normal 70 kg individual; free eating  
☒ Overweight due to decreased intestinal signal; run for 12 months to equilibrate  
☒ One day of overweight d  
☒ Overweight due to decreased intestinal signaling with SSRI treatment

Properties

Capture

Notes

Overweight due to decreased intestinal signaling with SSRI treatment

The individual is given serotonin reuptake inhibitor once they have equilibrated at 80 kg.

140

Active Set

122

144

145

120

Experiment Protocol

+

Normal 70 kg individual; free eating

-

Overweight due to decreased intestinal signaling; run for 12 months to equilibrate

Parameter Sets

Intestinal nutrient stimulation of satiety hormone: Reduced signaling; free eating

Weight-related parameters (initial conditions): 80 kg individual with 27.5% body fat

Values captured at: 12 months

-

Overweight due to decreased intestinal signaling with SSRI treatment

Parameter Sets

Reuptake inhibitor starting at t=0

Duration

2

months

Approx. size

0.12MB

Store Interval

1440

minutes

Load Stored Results

Store New Results

Run

Apply

Revert

FIG. 9

Parameter Set - Weight-related parameters (initial conditions)

Parameter Set

Name

Weight-related parameters (initial conditions)

Description

Use this parameter to specify the initial parameters related to body weight, such as stored fat, muscle mass, and mass of other tissues. These differ depending on if the individual is in an overweight or normal weight state

Value set

Name

80 kg individual with 27.5% body fat

Description

An individual starting at 80 kg with 22 kg of fat.

Notes...

Format...

Parameter	Type	Baseline Value Set	Alternate Value Set	Units
Status				
So	body weight	Computed	80 kg individual with 27.5% body fat	kg
So	stored adipocyte IG	14000	Computed	g
So	average fat mass	14	22000	kg
So	adipocytes	2.000000e+010	22	number of
So	body weight	70	80	kg
So	average body weight	Computed	Computed	kg
So	average body weight	70.09	27.5	kg
So	mass of other tissues	26.6	Computed	kg
So	mass of skeletal muscle	28	Computed	kg
So	mass of skeletal muscle	5.6e+006	5.8e+006	mg
So	muscle protein	28	29	kg
So	mass of brain	28	29	kg
So	basal muscle	28	29	kg
So	required muscle mass	28	29	kg

150

156

152

158

160

162

166

154

FIG. 10

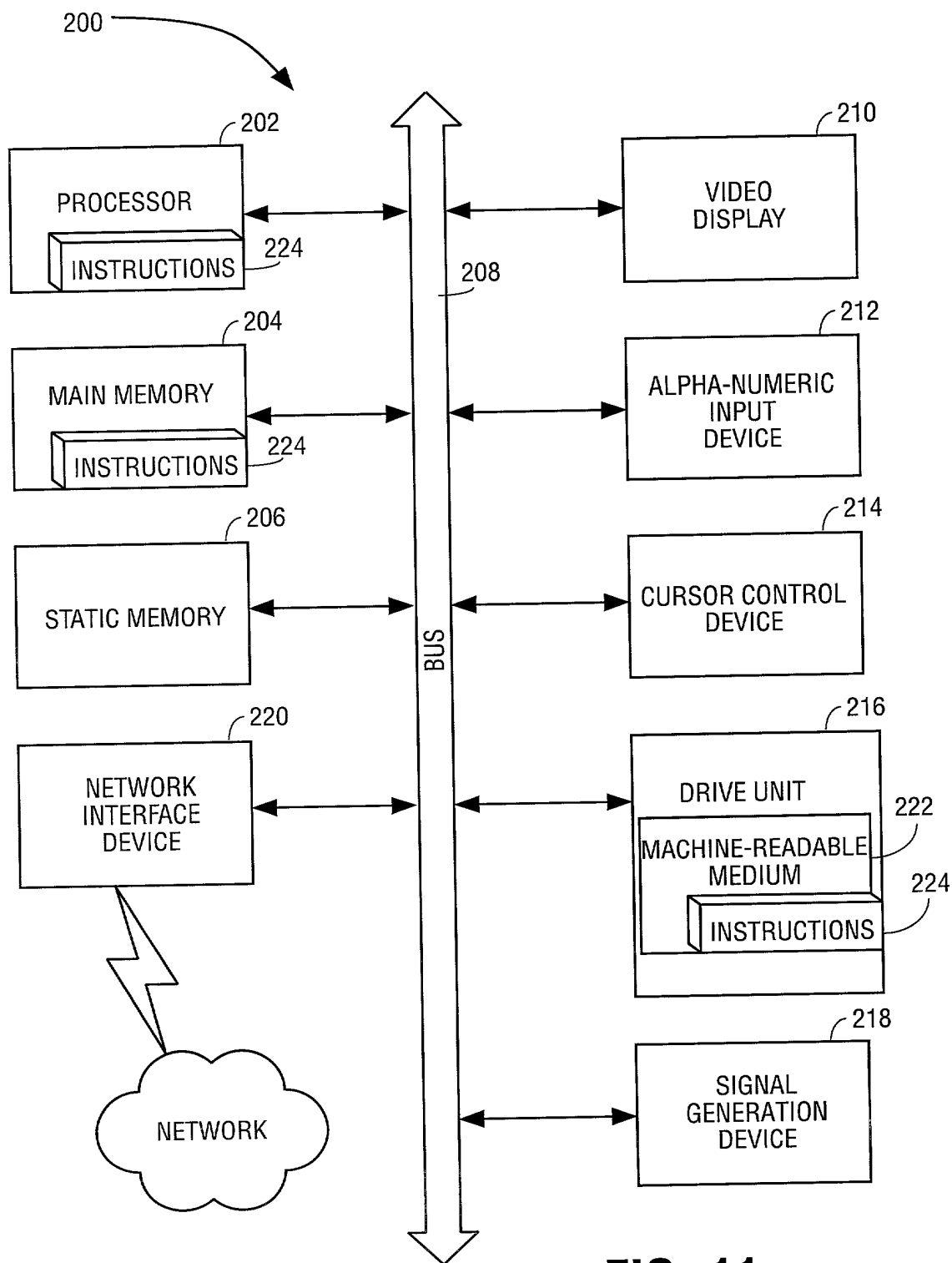


FIG. 11